US005750238A

United States Patent [19]

Iijima et al.

[11] Patent Number: 5,750,238

[45] Date of Patent: May 12, 1998

[54] **ELECTROSTATIC INFORMATION RECORDING MEDIUM**

[75] Inventors: **Masayuki Iijima**; **Osamu Shimizu**; **Yuichi Nakayasu**; **Yoshiaki Tsuruoka**; **Kayoko Sugiyama**, all of Tokyo, Japan

[73] Assignee: **Dai Nippon Printing Co., Ltd.**, Tokyo, Japan

[21] Appl. No.: **619,842**

[22] Filed: **Mar. 19, 1996**

Related U.S. Application Data

[62] Division of Ser. No. 75,581, filed as PCT/JP92/01336, Oct. 15, 1992, Pat. No. 5,527,589.

[30] **Foreign Application Priority Data**

Oct. 16, 1991	[JP]	Japan	3-267505
Oct. 17, 1991	[JP]	Japan	3-269427
Oct. 17, 1991	[JP]	Japan	3-269428
Nov. 12, 1991	[JP]	Japan	3-295529

[51] **Int. Cl.**[6] **B32B 3/00**

[52] **U.S. Cl.** ..... **428/195**; 428/411.1; 428/421; 428/422; 428/500; 428/694 BF; 427/256

[58] **Field of Search** ..... 430/122; 428/195, 428/411.1, 913, 204, 421, 422, 500, 649 BF; 427/256

[56] **References Cited**

U.S. PATENT DOCUMENTS

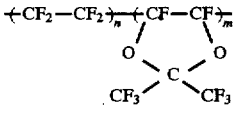
3,920,330	11/1975	Wells et al.	355/3
4,294,904	10/1981	Mammino	430/122

Primary Examiner—William Krynski

Attorney, Agent, or Firm—Dellett and Walters

[57] **ABSTRACT**

The electrostatic information recording medium of the present invention has an electric charge retaining layer 11 stacked on at least an electrode layer 13, as shown in FIG. 1. The electric charge retaining layer is formed from either ① a resin selected from among fluorocarbon resins, and an insulating organic substance having no photoconductivity, or ② a fluorine-containing thermoplastic resin consisting of a repeating unit represented by formula (1):



(where the content of the dioxonol component represented by the number m of repeating units is in the range of 20 mol % to 90 mol %)

the fluorine-containing thermoplastic resin having a melt viscosity of 10^2 to 10^4 Pa.sec at a temperature which is 90° C. to 110° C. higher than its glass transition temperature.

7 Claims, 13 Drawing Sheets